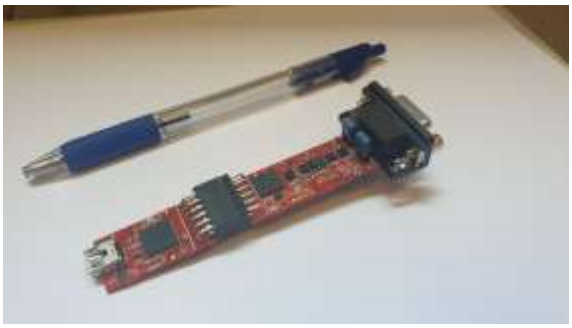
CAN bus/ARINC-825-4 Board with Safe and Secure Option



Sital Technology's CAN bus/ARINC-825-4 board is a USB-to-CAN bus/ARINC-825 interface with an option to include Sital's patented Safe and Secure (SnS) technology.

The board supports 11-bit and 29-bit CAN messaging and provides capability for transmitting and receiving messages for various lower-level and higher-layer protocols including ISO-11898, CAN 2.0, CAN-FD, ARINC-825-4, CANopen, SAE J1939, and DeviceNet4.

The board, which can operate at data rates up to 4 Mb/s, includes configurable options to support CAN bus and ARINC-825-4 standards. These include support for CAN bus Standard, Extended and Remote frames, 8 maskable identifier filters with filtering based on the Message_ID field and first two data bytes, self-test loopback mode, Monitor (listen-only) mode, 8 Transmit and Receive FIFOs, and an internal 16-bit free-running counter for time tagging of received and transmitted messages. The board includes a message FIFO memory with capacity for 16 transmit data buffers and 16 receive data buffers. The board may be connected to a USB port on a desktop, laptop or tablet computer and is supplied with a Windows API/library/drivers.

The board comes with an option for Sital's Safe and Secure (SnS) technology. By means of enhanced physical layer monitoring, Sital's CAN bus SnS sensor provides continuous real-time detection of cyber authentication "spoofing" (impersonation) violations, along with the capability to detect and locate intermittent or continuous open or short circuit wire fault detection for CAN bus. Sital's SnS wire fault detection feature provides continuous fault monitoring, enabling the detection of intermittent open-circuit and short circuit faults in cables, connectors, terminators and devices. By detecting such faults at the early stage, this enables preventive maintenance, prior to the occurrence of a continuous, catastrophic failure.

This SnS feature comes with API/library software including source code. The inclusion of source code allowing users to customize the SnS software to meet the specific requirements for their applications.

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